**ANSWERS:** **Shapes of molecules**

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| --- | --- | --- |
| **PH3**    trigonal pyramidal | **CO2**    180 **°**  linear | **H2CO**  **Chemistry 2**  120 **°**  trigonal planar |
| **O2**    180 **°**  **linear** | **CH3Br or CH3Cl**    **tetrahedral** | **SO2**    bent or v-shaped |
| **H2O**    **bent or v-shaped** | **CH2Br2 or CH2Cl2**    **tetrahedral** | **CS2**    180 **°**  linear |
| **XO2**  **(where X has 4 valence electrons)**    180 **°**  **linear** | **YO2**  **(where Y has 6 valence electrons)**    .  180 **°**  bent or v-shaped | **NCl3**    **trigonal pyramidal** |
| **PBr3 or PCl3**    **trigonal pyramidal** | **H2S**    v-shaped | **COCl2**    120 **°**  trigonal planar |
| **OCl2 aka Cl2O**    180 **°**  linear | **SiCl4**    **tetrahedral** | **HCN**    **linear** |
| **SF2**    **v-shaped** | **F2O**    **v-shaped** |  |

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